

DOCUMENTING SOFTWARE ARCHITECTURES VIEWS AND BEYO Manual

Documenting Software Architectures Views and Beyond

Documenting software architectures views and beyond is a fundamental activity in the software development lifecycle that ensures clear communication, effective decision-making, and maintainability of complex systems. As software systems grow in size and complexity, a single, monolithic description becomes insufficient to capture all relevant aspects. Instead, multiple architectural views are employed to represent different concerns, stakeholders, and levels of abstraction. This approach not only facilitates a comprehensive understanding of the system but also supports its evolution, validation, and quality assurance. Beyond merely creating views, it involves systematically managing, analyzing, and communicating these representations to align with project goals and stakeholder needs.

Understanding Software Architecture Views

What Are Architecture Views?

Architecture views are specific perspectives of a system's architecture that focus on particular concerns or stakeholder interests. They serve to organize complex information into manageable, understandable segments. By segmenting the architecture into views, architects can highlight different aspects such as structure, behavior, data flow, or deployment, tailored to the audience's needs.

The Purpose of Multiple Views

Using multiple views provides several benefits:

- **Clarity:** Simplifies complex systems by focusing on relevant aspects.
- **Communication:** Facilitates stakeholder understanding across diverse roles.
- **Analysis:** Enables targeted evaluation of specific concerns like performance or security.
- **Documentation:** Creates comprehensive, organized records for future reference.

Common Types of Architecture Views

Various standard views are employed in software architecture documentation, including:

- **Component and Connector View (C&C):** Represents system components and their interactions.
- **Structural View:** Details static structures such as class diagrams or deployment diagrams.
- **Behavioral View:** Describes system dynamics, workflows, or state changes.
- **Data View:** Focuses on data models, storage, and flow.
- **Deployment View:** Illustrates the physical deployment of software onto hardware.
- **Use Case View:** Captures functional requirements and user interactions.

Frameworks and Standards for Architectural Documentation

4+1 View Model

The 4+1 view model, proposed by Philippe Kruchten, is a widely adopted framework that organizes architecture views into five interconnected perspectives:

- **Logical View:** Focuses on the system's object model and structured around the domain's key abstractions.
- **Development View:** Addresses the software's organization in the development environment.
- **Process View:** Describes the dynamic aspects like concurrency and synchronization.
- **Physical View:** Depicts the system's physical deployment on hardware.
- **Scenarios:** Use cases or scenarios that illustrate how the views work together.

ISO/IEC/IEEE 42010 Standard

The ISO/IEC/IEEE 42010 standard formalizes the concepts of architecture description and views. It emphasizes:

- Defining architecture viewpoints and viewpoints' architecture description language (ADL).
- Ensuring views are consistent and aligned with stakeholder concerns.
- Applying quality attributes and evaluation criteria systematically.

Best Practices in Documenting Software Architecture Views

Defining Clear Viewpoints

Choosing the right viewpoints tailored to stakeholder concerns is crucial. Each viewpoint should:

- Address specific concerns (e.g., security, performance, maintainability).

- Be well-defined with clear modeling conventions.

Ensuring Consistency and Traceability

Consistency across views is vital for coherence:

- Use common terminology and modeling standards.
- Establish traceability links between views (e.g., how components relate to deployment diagrams).

Incorporating Quality Attributes

Documenting non-functional requirements such as scalability, reliability, and security should be integral:

- Embed quality considerations into each relevant view.
- Use metrics and analysis to support architectural decisions.

Utilizing Appropriate Tools

Leverage architectural modeling tools like:

- Enterprise Architect
- ArchiMate
- Microsoft Visio
- Modelio

to create, manage, and share architecture views efficiently.

Beyond Documentation: Effective Communication and Maintenance

Sharing and Collaborating on Architecture Views

Effective communication involves:

- Regular reviews with stakeholders.
- Using visualizations and narratives to explain views.

- Maintaining up-to-date documentation aligned with system evolution.

Integrating Views into Development Processes

Embedding architecture views into development workflows enhances alignment:

- Incorporate views into requirements analysis.
- Use views as references during design and implementation.
- Leverage views for verification, validation, and testing.

Managing Architectural Evolution

As systems evolve, documentation must be maintained:

- Track changes and their impact across views.
- Reassess views periodically based on new requirements or technologies.
- Use version control systems for architecture artifacts.

Challenges and Future Directions in Architecture Documentation

Handling Complexity and Scale

Modern systems often involve microservices, cloud architectures, and distributed components, increasing the complexity of documentation. Strategies include:

- Modularizing views.
- Adopting automated tools for modeling and validation.

Automating Architecture Documentation

Emerging trends focus on automation:

- Using model-driven engineering (MDE).
- Integrating architecture tools with continuous integration pipelines.
- Employing AI to analyze and generate documentation insights.

Emphasizing Runtime Architecture Monitoring

Beyond static views, monitoring architecture at runtime helps:

- Identify deviations from designed architecture.
- Support adaptive systems.
- Inform ongoing documentation updates.

Conclusion

Documenting software architectures views and beyond is a comprehensive discipline that underpins successful software engineering. It involves selecting appropriate viewpoints, ensuring clarity and consistency, and using standardized frameworks like ISO/IEC/IEEE 42010 or the 4+1 model. Effective documentation supports communication among diverse stakeholders, guides system development, and facilitates maintenance and evolution. As systems become more complex and rapid technological changes occur, the role of architecture documentation extends beyond static views to include automation, real-time monitoring, and dynamic adaptation. Embracing best practices and leveraging modern tools will continue to be essential for producing high-quality, maintainable, and resilient software architectures in the future.

Documenting Software Architectures Views and Beyond: A Comprehensive Guide to Effective Architectural Documentation

In the realm of software engineering, documenting software architectures views and beyond is a crucial activity that ensures clarity, maintainability, and effective communication among stakeholders. Whether you're developing a new system or maintaining an existing one, well-structured architectural documentation acts as a blueprint that guides development, facilitates onboarding, and supports decision-making. This guide explores the importance of architectural views, best practices for documenting them, and how to extend beyond traditional diagrams to create comprehensive, useful documentation.

Why Document Software Architectures?

Before diving into how to document architectural views, it's essential to understand why this activity is vital:

- **Communication:** Architectural diagrams serve as a shared language among developers, designers, project managers, and clients.
- **Decision Making:** Clear documentation supports trade-off analysis and guides future enhancements.
- **Knowledge Preservation:** As teams evolve, documentation preserves critical architectural

knowledge.

- Quality Assurance: Visualizations help identify potential issues early, such as bottlenecks or security vulnerabilities.

Understanding Architectural Views

What Are Architectural Views?

Architectural views are perspectives of a software system that highlight particular concerns or aspects of the architecture. They provide tailored insights aligned with stakeholder needs. Different views focus on different concerns such as functionality, data flow, deployment, or security.

Common Types of Architectural Views

Many architecture frameworks and standards suggest multiple views, including:

- Logical View: Describes the system's object model and logical components.
- Development View: Focuses on the organization of the software modules and source code.
- Process View: Details runtime elements like processes, threads, and their interactions.
- Physical/View of Deployment: Illustrates hardware, network, and physical distribution.
- Data View: Shows data models, storage, and data flow.

The 4+1 View Model

A widely adopted approach is Kruchten's 4+1 View Model, which organizes architecture into:

- Logical View: Use cases and object interactions.
- Development View: Module organization.
- Process View: Concurrency and runtime behavior.
- Physical View: Deployment topology.
- Scenarios/Use Cases: Illustrate how all views work together.

Best Practices for Documenting Architectural Views

- Define Your Audience and Purpose

Understand who will read the documentation:

- Developers need technical details.
- Managers require high-level overviews.
- Clients may prefer simplified diagrams.
- Operations teams focus on deployment and runtime aspects.

Clarifying the purpose ensures the documentation is relevant and focused.

- Use Appropriate Visualizations

Different views require different diagram types:

- Component diagrams for logical structure.
- Sequence or communication diagrams for interactions.
- Deployment diagrams for hardware and network layout.
- Data flow diagrams for data movement.

Choose tools that facilitate clear, standardized diagrams (e.g., UML, ArchiMate, C4 Model).

- Maintain Consistency and Clarity
- Use consistent symbols, naming conventions, and notation.
- Avoid clutter; focus on essential details.
- Include legends and annotations where necessary.
- Provide Context and Rationale

Explain the reasoning behind architectural decisions:

- Why certain technologies or patterns were chosen.
- Trade-offs considered.
- Assumptions made during design.

This context helps future maintainers understand and evolve the architecture.

- Keep Documentation Up-to-Date

Architectures evolve; outdated documentation can cause confusion. Establish processes for regular reviews and updates.

Extending Beyond Traditional Architectural Views

While diagrams are invaluable, effective architectural documentation extends beyond static visuals. Here are ways to enhance your documentation:

- Incorporate Narrative Descriptions

Complement diagrams with detailed narratives that explain the architecture:

- Describe how components interact.
- Outline workflows and data flows.
- Clarify non-obvious design choices.

- Use Atlases of Architectural Patterns

Document common patterns used within the architecture, such as:

- Microservices, monoliths, event-driven systems.
- Security patterns like OAuth, JWT.
- Data management strategies.

This provides a pattern library that guides future development.

- Document Non-Functional Requirements

Highlight aspects such as:

- Performance and scalability targets.
- Security considerations.
- Availability and fault tolerance.

- Compliance and regulatory constraints.

These factors influence architectural choices and should be documented explicitly.

- Include Metrics and Monitoring Strategies

Describe how the system will be monitored:

- Key performance indicators (KPIs).
- Logging and alerting mechanisms.
- Tools and dashboards.

This supports operational excellence.

- Leverage Model-Driven Architecture (MDA)

Use formal models and tools that generate parts of the architecture documentation, ensuring consistency and traceability.

- Maintain Architectural Decision Records (ADRs)

Capture key decisions, alternatives considered, and their context. ADRs provide historical insights and rationale.

Practical Steps to Document Software Architectures Effectively

Step 1: Identify Stakeholders and Their Needs

Engage with all relevant parties to understand what views and details are necessary.

Step 2: Gather Existing Architectural Knowledge

Collect existing diagrams, code, and design documents.

Step 3: Choose Appropriate Documentation Tools

Select diagramming tools (e.g., draw.io, Lucidchart, Visual Paradigm) and documentation platforms

(e.g., Confluence, Markdown files).

Step 4: Develop and Organize Views

Create initial drafts of each view, ensuring clarity and consistency.

Step 5: Add Descriptive Content

Write narratives, decision logs, and non-functional requirements.

Step 6: Review and Iterate

Conduct reviews with stakeholders, gather feedback, and refine the documentation.

Step 7: Maintain and Evolve

Set schedules for regular updates as the architecture evolves.

Challenges and Common Pitfalls

- Over-Documenting: Excessive detail can obscure key insights. Focus on what adds value.
- Under-Documenting: Missing critical views can lead to misunderstandings.
- Inconsistencies: Disconnected diagrams and descriptions cause confusion.
- Neglecting Updates: Outdated docs mislead teams and hinder progress.

Address these challenges by establishing governance, using templates, and fostering a culture that values documentation.

Conclusion

Documenting software architectures views and beyond is a multifaceted activity that combines visual representations, narratives, decision records, and operational strategies. Effective documentation ensures that the architecture is understandable, maintainable, and adaptable over time. By focusing on stakeholder needs, adopting best practices, and extending beyond traditional diagrams to include contextual information, teams can create comprehensive documentation that supports the entire software lifecycle. Remember, good architecture documentation is an ongoing process?continuous refinement and updates are essential to keep it relevant and valuable.

Question What are the key benefits of documenting software architecture views?
Answer Documenting software architecture views helps improve understanding among stakeholders,

facilitates communication, supports maintenance and evolution, and ensures consistency across different parts of the system. Which architecture views are most commonly used in documenting complex systems? Common views include the logical view, physical view, process view, development view, and deployment view, each highlighting different aspects of the system to address various stakeholder concerns. How can tools aid in documenting and maintaining software architecture views? Tools like ArchiMate, Enterprise Architect, and Visual Paradigm enable visual modeling, version control, and collaboration, making it easier to create, update, and share architecture documentation effectively. What are best practices for ensuring consistency across multiple architecture views? Establish clear modeling standards, use traceability links between views, regularly review documentation, and align views with overall architectural principles to maintain consistency. How does documenting architecture views support system evolution and scalability? Well-maintained views provide a comprehensive understanding of system components and their interactions, enabling easier identification of impact areas and facilitating scalable design decisions. What are common challenges faced when documenting software architecture views and how can they be addressed? Challenges include keeping documentation up-to-date, managing complexity, and ensuring stakeholder engagement. These can be addressed by adopting lightweight modeling approaches, automating updates, and involving stakeholders early in the documentation process.

Related keywords: software architecture documentation, architecture views, architecture documentation best practices, architectural modeling, system architecture diagrams, software design documentation, architecture documentation tools, view-based architecture, architectural decision records, documenting software systems

DARCEY BUSSELL EVOLVED

darcey bussell evolved: The Journey of a Ballet Icon and Her Transformation

Introduction

Dancer, choreographer, author, and renowned cultural ambassador, Darcey Bussell has been a household name in the world of ballet for decades. Her career has been marked not only by her exceptional talent but also by her continuous evolution as an artist and public figure. From her early days training at the Royal Ballet School to her prominent role as a judge on "Strictly Come Dancing," Bussell's journey reflects a remarkable evolution—both professionally and personally. This article explores the inspiring trajectory of Darcey Bussell, highlighting her career milestones, her growth beyond ballet, and her ongoing influence on the arts and society.

Early Life and Beginnings in Ballet

Childhood and Introduction to Dance

- Born on April 27, 1969, in London, England.
- Showed an early interest in dance, often mimicking ballet performances seen on television.
- Began ballet classes at a young age, demonstrating prodigious talent.

Training at the Royal Ballet School

- Joined the Royal Ballet School at age 13.
- Exhibited exceptional discipline and dedication during her training.
- Graduated into the Royal Ballet Company at just 16 years old.

Rise to Stardom in the Ballet World

Early Career Highlights

- Quickly gained recognition for her expressive performances and technical mastery.
- Debuted in prominent roles such as the Sugar Plum Fairy in "The Nutcracker."
- Became a principal dancer of The Royal Ballet at age 20.

Signature Roles and Performances

- Known for her interpretations of classical ballets, including:
- Odette/Odile in "Swan Lake"
- Aurora in "Sleeping Beauty"
- Juliet in "Romeo and Juliet"
- Earned critical acclaim for her artistry and stage presence.

Evolution of Artistic Style and Technique

Continuous Growth as a Dancer

- Embraced new choreography and contemporary works to expand her repertoire.
- Worked with renowned choreographers like Kenneth MacMillan and Wayne McGregor.

- Adapted her dancing style over time, maintaining relevance in a competitive field.

Transition from Classical to Contemporary

- Explored modern dance influences, integrating them into her performances.
- Participated in projects that challenged traditional ballet norms.
- Developed a reputation as a versatile and innovative artist.

Leadership and Mentorship

Role as a Ballet Director and Mentor

- After retiring from stage performance, Bussell took on leadership roles.
- Served as a judge on "Strictly Come Dancing," influencing a new generation of dancers and audiences.
- Mentored young dancers through various programs and initiatives.

Advocacy for the Arts

- Became an advocate for arts education and access.
- Supported charities promoting dance and cultural development.
- Worked to increase diversity and inclusion within the arts community.

Expanding Horizons: From Ballet to Broader Cultural Roles

Authoring and Public Engagement

- Published autobiographies and dance-related books sharing her experiences.
- Became a popular speaker at events, inspiring aspiring dancers.
- Promoted healthy living and discipline through her public appearances.

Television and Media Presence

- Gained widespread recognition as a TV personality.
- Hosted dance shows and participated in charity events.
- Used media platforms to elevate awareness of ballet and arts education.

Darcey Bussell's Evolved Persona and Influence

Personal Growth and Public Image

- Transitioned from a shy young dancer to a confident public figure.
- Embraced her role as a role model for young women and aspiring artists.
- Advocated for mental health and well-being within the arts community.

Impact on Ballet and Culture

- Elevated ballet's profile among mainstream audiences.
- Inspired countless dancers worldwide with her dedication and artistry.
- Continues to influence the evolution of dance through her mentorship and advocacy.

Recent Endeavors and Future Directions

Current Projects and Initiatives

- Involved in various arts projects promoting dance education.
- Engages in philanthropic activities supporting young dancers.
- Continues to participate in cultural dialogues and events.

Looking Ahead

- Potential involvement in choreography or artistic direction.
- Ongoing efforts to make ballet more accessible and inclusive.
- Commitment to nurturing the next generation of performers.

Conclusion: The Evolved Legacy of Darcey Bussell

Darcey Bussell's journey from a talented young girl in London to an international ballet star and influential cultural figure exemplifies continuous evolution. Her ability to adapt, grow, and inspire has kept her relevant across decades, proving that evolution in the arts requires passion, resilience, and a willingness to embrace change. Whether on stage, in front of the camera, or through her advocacy, Bussell's evolved persona reflects her dedication not only to her craft but also to making a lasting impact on society. Her legacy is a testament to the transformative power of art and the importance of evolving beyond one's beginnings to reach new heights.

Key Takeaways:

- Darcey Bussell's early start and rigorous training set the foundation for her illustrious career.
- Her evolution as an artist includes embracing contemporary styles and leadership roles.
- She has expanded her influence beyond ballet into media, advocacy, and mentorship.
- Bussell continues to inspire with her ongoing commitment to the arts and societal progress.

For fans and aspiring dancers alike, Darcey Bussell's story demonstrates that evolution is essential for growth and relevance. Her journey underscores that with dedication and openness to change, one can continually redefine oneself, leaving a lasting legacy in the world of dance and beyond.

Darcey Bussell Evolved: A Deep Dive into the Artistic Journey of a Ballet Icon

In the realm of classical ballet, few figures resonate as profoundly as Darcey Bussell. From her debut as a young prodigy to her current status as a revered dance ambassador, Bussell's evolution reflects not only her personal growth but also the shifting landscape of ballet over the past three decades. This comprehensive exploration traces her journey, examining how her artistry, influence, and contributions have matured and adapted, shaping her into a multifaceted figure in the dance world today.

Early Years and Rapid Ascension in Ballet

Foundations and Training

Darcey Bussell was born in 1969 in London, England. Her early fascination with dance was evident from a young age, and she enrolled at the Royal Ballet School at just 13. Her rigorous training was marked by exceptional discipline and innate talent, setting the stage for her rapid rise through the ranks of professional ballet.

Professional Breakthrough

At age 20, Bussell made her debut with The Royal Ballet, quickly earning recognition for her lyrical technique, expressive performances, and captivating stage presence. Her early repertoire included principal roles in classics like *Swan Lake*, *The Sleeping Beauty*, and *Giselle*, which showcased her technical mastery and emotional depth.

The Evolution of Artistic Style and Technique

From Classical Virtuosity to Artistic Maturity

As Bussell's career progressed, critics observed a notable evolution in her dance style. Initially celebrated for her technical precision, she gradually developed a more nuanced, interpretive approach. Her performances began to embody a deeper emotional resonance, blending technical prowess with expressive storytelling.

Key aspects of her evolving style include:

- Refined Musicality: A heightened sensitivity to musical phrasing, enhancing the storytelling.
- Expressive Use of Body Language: Incorporation of subtle gestures that conveyed complex emotions.
- Dynamic Range: From delicate, ethereal movements to powerful, commanding performances, showcasing versatility.

Transition into Contemporary and Character Roles

While rooted in classical ballet, Bussell's evolution also saw her embracing roles that demanded a broader interpretive range. Her performances in contemporary works and character-driven pieces demonstrated her adaptability and desire to challenge herself artistically.

Expanding Influence Beyond the Stage

Media and Public Persona

In the late 1990s and early 2000s, Bussell's fame extended beyond ballet audiences. She became a household name through television appearances, documentaries, and public engagements, becoming a symbol of grace and professionalism.

Her media presence contributed to:

- Demystifying ballet: Making the art form accessible and appealing to wider audiences.
- Role model: Inspiring young dancers worldwide with her journey and dedication.

Transition to Mentorship and Artistic Leadership

Post-retirement from performing in 2007, Bussell's evolution took on a mentorship and leadership dimension. She took on roles such as:

- Principal Guest Artist: Collaborating with various companies globally.

- Judging and Advisory Roles: Serving on panels for dance competitions and arts organizations.
- Choreographic Projects: Piloting new works that blend classical and contemporary styles.

Contributions to Ballet Education and Advocacy

Educational Initiatives and Outreach

Darcey Bussell has been instrumental in promoting ballet among youth and underserved communities. Her efforts include:

- Workshops and Masterclasses: Sharing her expertise with aspiring dancers.
- Partnerships with Educational Institutions: Supporting ballet training programs.
- Public Campaigns: Advocating for arts funding and access to dance education.

Promotion of Diversity and Inclusion

In her later career, Bussell has spoken about the importance of diversity within ballet. She advocates for:

- Broader representation of different cultures and body types.
- Modernizing traditional ballet narratives to reflect contemporary society.

Recognitions and Awards: A Testament to Her Evolved Legacy

Over the years, Bussell's contributions have been recognized with numerous awards:

- Queen's Award for Export Achievement (2006): For promoting British ballet internationally.
- Honorary Degrees: From various universities acknowledging her artistic influence.
- Recognition as a Cultural Icon: Celebrated in media and arts circles for her enduring impact.

Critical Perspectives and Contemporary Reassessment

While universally admired, some critics have analyzed her evolution through various lenses:

- Technical vs. Expressive Balance: Debates on whether her focus shifted from technical perfection to emotional depth.
- Commercialization of Dance: Discussions on her role in making ballet more accessible and

marketable.

- Legacy and Influence: Assessments of how her evolution has inspired new generations and shaped modern ballet aesthetics.

Future Directions and Continuing Influence

Though retired from the stage, Bussell's ongoing projects suggest her evolution is ongoing:

- Choreographic Endeavors: Developing new works that incorporate her diverse influences.
- Advocacy and Education: Continuing to champion ballet as an accessible art form.
- Global Outreach: Using digital platforms to reach wider audiences and inspire future dancers.

Conclusion: A Dynamic Evolution in Ballet's Modern Era

Darcey Bussell's journey from a young ballet prodigy to a multifaceted ambassador exemplifies artistic growth and adaptability. Her evolution reflects a deepening of artistry, a commitment to education, and a desire to broaden ballet's reach. Her legacy is not only defined by her performances but also by her ongoing influence as a mentor, advocate, and cultural icon. As ballet continues to evolve, Bussell's story remains a testament to the transformative power of dedication, innovation, and grace in the arts.

Question Who is Darcey Bussell and how has she evolved over her career? Darcey Bussell is a renowned British ballerina known for her elegance and technical skill. Over her career, she evolved from a young dance prodigy to a principal dancer at The Royal Ballet, and later transitioned into coaching, choreography, and television judging, showcasing her versatility within the dance world. What are some key milestones in Darcey Bussell's evolution as a dancer? Key milestones include joining The Royal Ballet at age 13, becoming a principal dancer in 1995, performing leading roles worldwide, and ultimately retiring from full-time ballet in 2007 to focus on mentoring and media appearances. How has Darcey Bussell contributed to the world of ballet after her retirement? Post-retirement, Darcey Bussell has contributed as a judge on 'Strictly Come Dancing,' authored books on dance, served as a ballet ambassador, and founded her own dance workshops, helping to promote ballet to wider audiences. In what ways has Darcey Bussell's dance style evolved throughout her career? Her dance style evolved from youthful exuberance to refined elegance and expressive artistry, adapting to new choreography and roles, which showcased her versatility and depth as a performer. What initiatives has Darcey Bussell launched to promote ballet among young dancers? Darcey Bussell has launched dance education programs, workshops, and mentorship schemes aimed at inspiring and training the next generation of ballet dancers, emphasizing accessibility and excellence. How has Darcey Bussell's public image changed as she evolved from dancer to media personality? Initially celebrated solely for her dance talent, her public image has expanded to include her role as a television judge, author, and advocate for arts

education, reflecting her multifaceted career and influence. What awards and recognitions has Darcey Bussell received that highlight her evolution in the arts? She has received numerous awards including an OBE, honorary doctorates, and awards from dance organizations, recognizing her contributions to ballet and her influence in arts and culture. How does Darcey Bussell continue to influence the ballet community today? Through her mentorship, public appearances, and advocacy for dance education, Darcey Bussell continues to inspire emerging dancers and promote the arts globally. What lessons can aspiring dancers learn from Darcey Bussell's career evolution? Aspiring dancers can learn the importance of versatility, continuous growth, adaptability, and using their platform to give back to the community, exemplified by Darcey Bussell's successful transition from performer to ambassador and mentor.

Related keywords: Darcey Bussell, ballet, dancer, choreography, performance, ballet career, Royal Ballet, ballet technique, dance evolution, artistic development

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